

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (ORIGINAL) Seed of a soybean variety designated SG5010NRR, representative seed having been deposited under ATCC Accession No. _____.
2. (ORIGINAL) A soybean plant, or parts thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule of the plant of claim 2.
5. (ORIGINAL) A soybean plant, or parts thereof, having all of the physiological and morphological characteristics of the soybean plant of claim 2.
6. (ORIGINAL) A tissue culture of regenerable cells from the plant of claim 2.
7. (CURRENTLY AMENDED) [[A]] The tissue culture according to claim 6, the cells or protoplasts of the tissue culture being from a tissue selected from the group consisting of: leaves, pollen, embryos, cotyledon, hypocotyl, meristematic cells, roots, root tips, anthers, flowers, seeds, stems and pods.
8. (CURRENTLY AMENDED) A soybean plant regenerated from the tissue culture of claim 6, wherein the regenerated plant ~~is capable of expressing~~ has all of the morphological and physiological characteristics of soybean cultivar SG5010NRR.
9. (CURRENTLY AMENDED) A soybean plant with all of the physiological and morphological characteristics of soybean variety SG5010NRR, wherein said soybean plant is produced by a tissue culture process using the soybean plant of claim 5 as the starting material for ~~such a~~ said process.
10. (ORIGINAL) A method for producing a hybrid soybean seed comprising crossing a first parent soybean plant with a second parent soybean plant and harvesting the resultant hybrid soybean seed, wherein said first parent soybean plant or said second parent soybean plant is the soybean plant of claim 2.

11 - 24. (CANCELLED)

25. (NEW) A method of producing an herbicide resistant soybean plant comprising transforming the soybean plant of claim 2 with a transgene that confers herbicide resistance.

26. (NEW) An herbicide resistant soybean plant produced by the method of claim 25.

27. (NEW) A method of producing an insect resistant soybean plant comprising transforming the soybean plant of claim 2 with a transgene that confers insect resistance.

28. (NEW) An insect resistant soybean plant produced by the method of claim 27.

29. (NEW) A method of producing a disease resistant soybean plant comprising transforming the soybean plant of claim 2 with a transgene that confers disease resistance.

30. (NEW) A disease resistant soybean plant produced by the method of claim 29.

31. (NEW) A method of producing a soybean plant with modified fatty acid or carbohydrate metabolism comprising transforming the soybean plant of claim 2 with one or more transgenes encoding a protein selected from the group consisting of stearyl-ACP desaturase, fructosyltransferase, levansucrase, alphaamylase, invertase and starch branching enzyme.

32. (NEW) A soybean plant produced by the method of claim 31.

33. (NEW) A method of introducing a desired trait into soybean cultivar SG5010NRR comprising:

- (a) crossing the SG5010NRR plants, grown from seed deposited under ATCC Accession No. PTA-_____, with plants of another soybean line that comprise a desired trait to produce F1 progeny plants, wherein the desired trait is selected from male sterility, herbicide resistance, insect resistance and resistance to bacterial, fungal or viral disease;
- (b) selecting F1 progeny plants that have the desired trait to produce selected F1 progeny plants;
- (c) crossing the selected F1 progeny plants with the SG5010NRR plants to produce first backcross progeny plants;

- (d) selecting for first backcross progeny plants that have the desired trait and physiological and morphological characteristics of soybean cultivar SG5010NRR to produce selected first backcross progeny plants; and
- (e) repeating steps (c) and (d) three or more times in succession to produce selected fourth or higher backcross progeny plants that comprise the desired trait and all of the physiological and morphological characteristics of soybean cultivar SG5010NRR as determined at a 5% significance level when grown in the same environmental conditions.

34. (NEW) A plant produced by the method of claim 33, wherein the plant has the desired trait and all of the physiological and morphological characteristics of soybean cultivar SG5010NRR as determined at a 5% significance level when grown in the same environmental conditions.